Casiotone MT-500

Operation Manual 2

Manual de Operación ... 23

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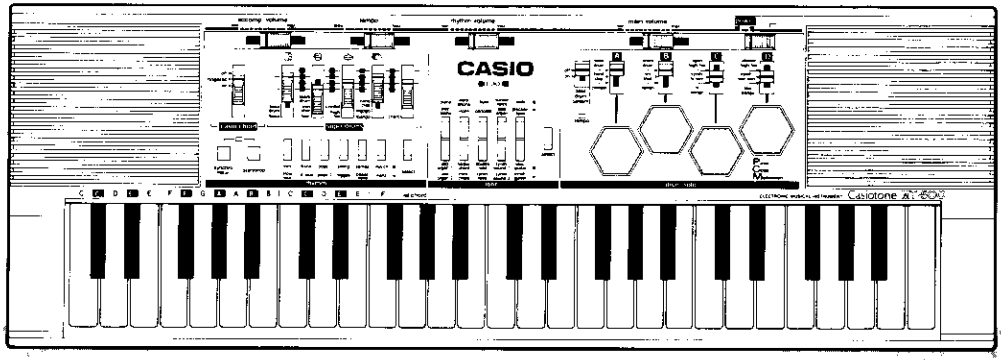
SPARE PARTS MASTER



CASIO®

英 西

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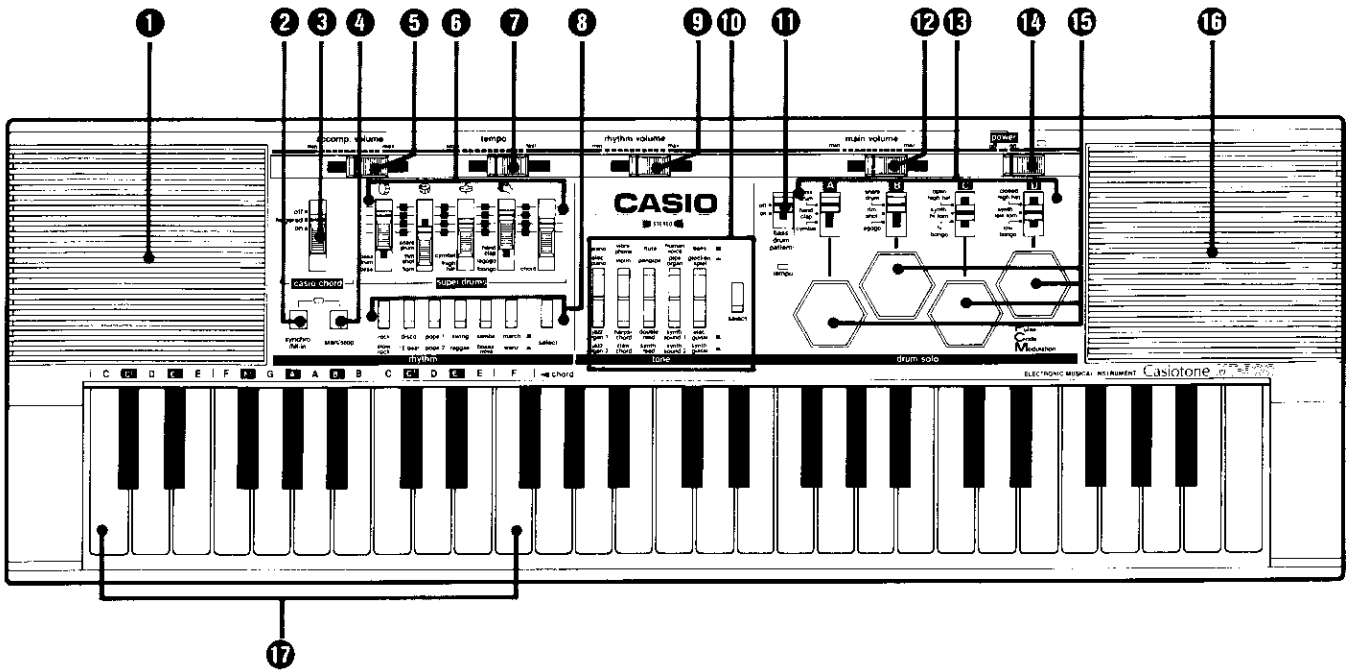
1. General Guide



❶ **Built-in speaker (Left)**

❷ **Synchro/Fill-in button**
Starts rhythm, chord and bass simultaneously, when any key on the accompaniment keyboard is pressed. Also used to insert a fill-in (rhythm grace) during play.

❸ **Casio Chord switch**
Turns auto-accompaniment ON and OFF.

❹ **Start/Stop button**
Starts and stops rhythm.

❺ **Accompaniment volume control**
Controls rhythm, chord and bass volume only.

❻ **Super drums**
Used to select a drum beat pattern. Selection is performed after selecting an auto-rhythm.

❼ **Tempo control**
Controls auto-rhythm and auto-accompaniment.

❽ **Rhythm selectors**
Used to select one of 12 auto-rhythms.

❾ **Rhythm volume control**
Controls the auto-rhythm volume.

❿ **Preset tone selectors**
Used to select one of 20 preset tones.

⓫ **Bass drum pattern switch**
Turns bass drum pattern ON and OFF.

⓬ **Main volume control**
Controls the overall melody, rhythm, chord and bass volume.

⓭ **Instrument selector**
Used to select the instrument for each drum pad.

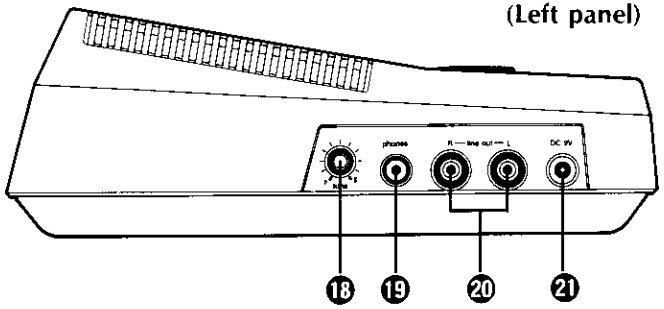
⓮ **Power switch**

⓯ **Drum pads**

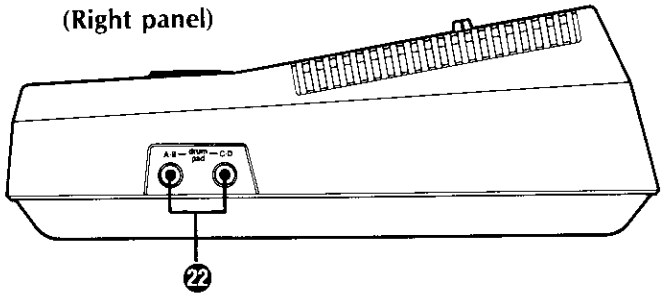
⓰ **Built-in speaker (Right)**

⓱ **Accompaniment keyboard**
Used for playing chords when Casio Chord switch (❸) is set to "fingered" or "on".

(Left panel)



(Right panel)



⑱ Tuning control
Adjusts the pitch of the entire keyboard within a quarter tone (±50 cents), making it possible to tune the keyboard to other instruments.

⑲ Headphone jack
For connection of optional headphones (CP-2). Output from the speakers is automatically cut when headphones are connected.

⑳ Output jacks (Left/Right)
For connection to keyboard amplifiers, external speakers, audio equipment, etc.

㉑ AC adaptor jack
For connection of AC adaptor (AD-5) or car adaptor (CA-5).

㉒ External drum pad jack
For connection of external drum pad (DP-1).

2. Power Supply

This unit is capable of being powered by dry batteries, standard household current (mains), or a car battery through the vehicle's cigarette lighter.

Batteries

This unit can be powered by 6 D-size manganese dry batteries. Weakened batteries will result in lower volume or poor tonal quality. The power indicator lamp will gradually lose its brightness as battery power weakens. At this time, replace batteries or change to one of the other power sources noted below.

Battery replacement:

①Slide open the battery compartment cover on the bottom of the unit and remove the weakened batteries.

②Load a new set of batteries ensuring that polarity is correct.

**Replace all six batteries to ensure long battery life.*

**Remove batteries when the unit is not used for extended periods to avoid damage caused by battery leakage.*

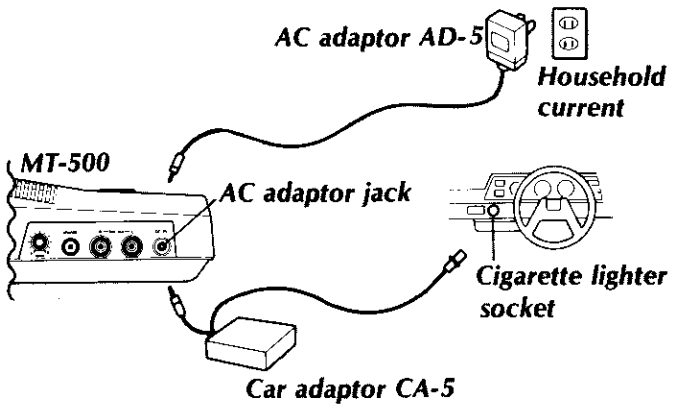
**See specifications for approximate battery life.*

- **Car battery**

  This unit can also be powered through an automobile's cigarette lighter by using an optional CA-5 car battery adaptor.

Household AC current

An optional AD-5 AC adaptor is required to connect the unit to an AC outlet. The voltage rating of the adaptor (100, 117, 220, 240V) must match the power supply to which the unit is connected to avoid damage to delicate internal circuitry.



★Auto power off function

An automatic power cut off function activates approximately 6 minutes after the last key operation. Power supply can be restored by switching the power switch OFF and then ON again.

CAUTION

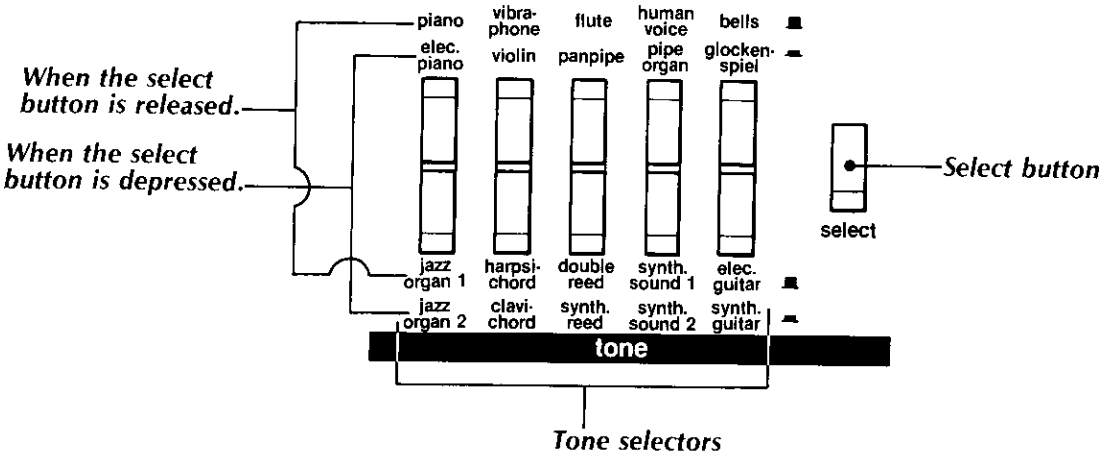
- Use only the Casio AC adaptor specified for this unit.
- The adaptor normally becomes warm when connected to an AC outlet. Disconnect the adaptor whenever possible, especially if the unit is not used for extended periods.

The following conditions may cause batteries to burst:

1. Use of an AC adaptor other than a genuine Casio adaptor.
2. Loading batteries with their polarities reversed.

3. Preset Tones

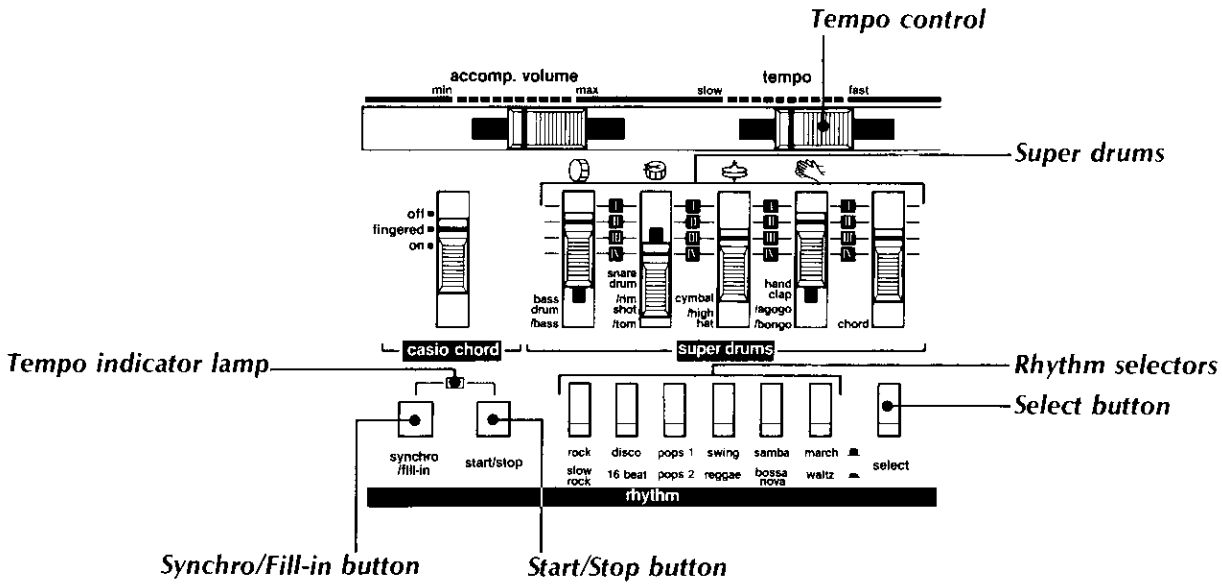
Tones are set by pressing one of the 10 tone selectors. Each selector is marked with two names. They can be set according to whether the select button is depressed or released.



4. Auto-rhythm & Super Drums

[1] Auto-rhythm

Each of 12 auto-rhythms is capable of four different patterns for bass drum/bass, snare drum/rim shot/tom, cymbal/high hat, hand clap/agogo/bongo and chord. This makes it possible to arrange one of a wide variety of rhythm and accompaniment patterns to suit the type of music being played.

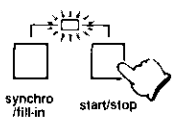


- **Auto-rhythm selection**
  Select one of 12 auto-rhythms by pressing the rhythm selector. Each position has two rhythm patterns according to whether the select button is depressed or released.

- **Rhythm Start/Stop**

①Select a rhythm by pressing the corresponding rhythm selector.

②The set rhythm will begin to play when the start/stop button is pressed.



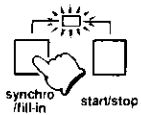
The tempo indicator will flash on the first beat of each measure.

Press the start/stop button again to terminate auto-rhythm play.

- **Synchro start**
  The synchro start function causes the rhythm to begin as soon as a key on the accompaniment keyboard is pressed.

①Select a rhythm by pressing the corresponding rhythm selector.

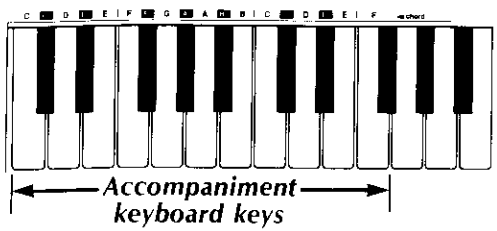
②Press the synchro/fill-in button to enter the synchro start standby mode.



The tempo indicator will flash to indicate the standby mode.

Pressing the synchro/fill-in button again cancels the synchro start standby mode.

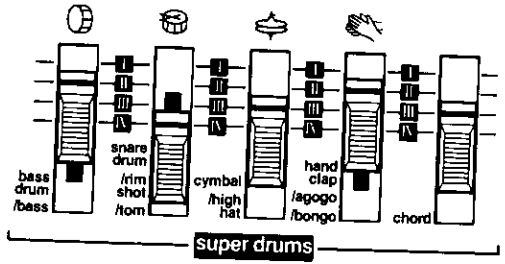
③Rhythm play will start when any key on the accompaniment keyboard is pressed.



- **Fill-in**
  Pressing the synchro/fill-in button while rhythm is being played causes a percussive fill-in. Holding down the button inserts a fill-in that will continue to the end of the current measure.

[2] Super drums

Start any auto-rhythm and then adjust the 5 super drum controls to change the rhythm pattern to match the music you wish to play.

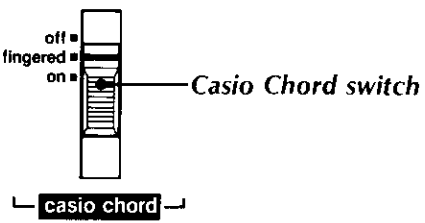


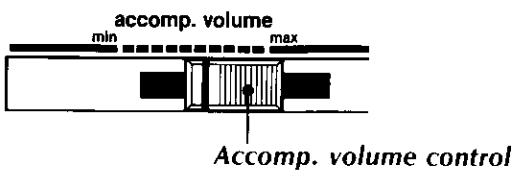
*The chord selector is not operational if auto-accompaniment is not used (i.e. if the Casio Chord switch is set to "off").

*Tom includes both high tom-tom and low tom-tom. Selection is made automatically according to the auto-rhythm combination selected and position of the "snare drum/rim shot/tom" selector. The same is true for the "cymbal/high-hat" and "hand clap/agogo/bongo" selectors.

5. Auto-accompaniment

The auto-accompaniment function of the MT-500 offers two ways of playing chords. One is the normal way in which you play three or four notes at the same time, and the other is the easier "One-finger method" which is available using the Casio Chord system.





- **Casio Chord switch**

  Turns auto-accompaniment on and off.

  OFF .....For normal play without auto-accompaniment.

  FINGERED .....For auto-accompaniment pressing chords as usual.

  ON.....For auto-accompaniment using the Casio Chord system.

  **If the Casio Chord switch is set to "fingered" or "on", the lower one-and-a-half octaves of the keyboard become accompaniment keyboard keys, and the upper part of the keyboard becomes 4-note polyphonic.*

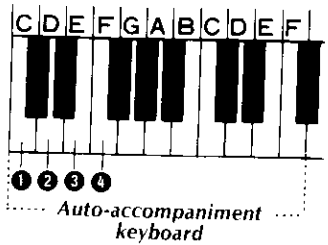
- **Accompaniment volume control**

  Adjusts the volume of the auto-accompaniment, i.e., rhythm, chord and bass.

Casio Chord System

The Casio Chord system has been developed so you can play the four main types of chords more easily. Playing of the chords is simplified as shown below:

- Pressing one of the accompaniment keyboard keys produces a major chord corresponding to that note.
- Simultaneously pressing any key to the right (two keys at the same time) results in a minor chord.
- Similarly, pressing one more key to the right (three keys in all) produces a seventh chord, and pressing the fourth key to the right (four keys in all) creates a minor seventh chord.

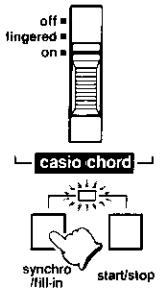


(Example)
C (C major chord)—Press ❶.
Cm (C minor chord)—Press ❶, ❷ together.
C_7 (C seventh chord)—Press ❶, ❷, ❸ together.
Cm_7 (C minor seventh chord)—Press ❶, ❷, ❸, ❹ together.

*Not only ❷, ❸ and ❹, but any black or white keys can be used as long as they are to the right of ❶.

[1] Auto-accompaniment using the Casio Chord System (One-finger Method)

①Set the Casio Chord switch to "on".

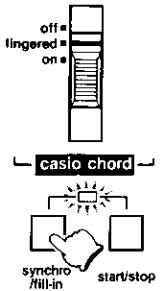


②Select one of the auto-rhythms and press the synchro/fill-in button.
The lamp above the synchro/fill-in button lights, meaning that the accompaniment keyboard keys are ready for play.

③Play on the accompaniment keyboard keys according to the Casio Chord system.
Adjust the tempo and accompaniment volume using the respective controls.

[2] Auto-accompaniment by playing chords as usual.

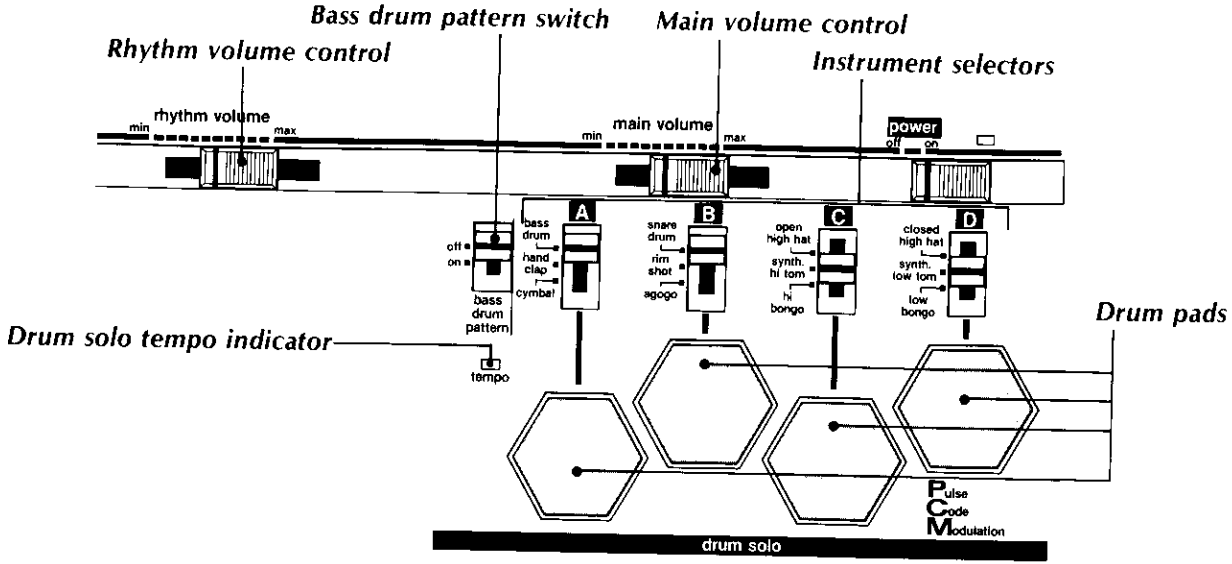
①Set the Casio Chord switch to "fingered".



②Select one of the auto-rhythms and press the synchro/fill-in button.
The lamp above the synchro/fill-in button lights, meaning that the accompaniment keyboard keys are ready for play.

③Play a chord on the accompaniment keyboard keys.
Adjust the tempo, accompaniment volume using the respective controls.

6. Drum Solo



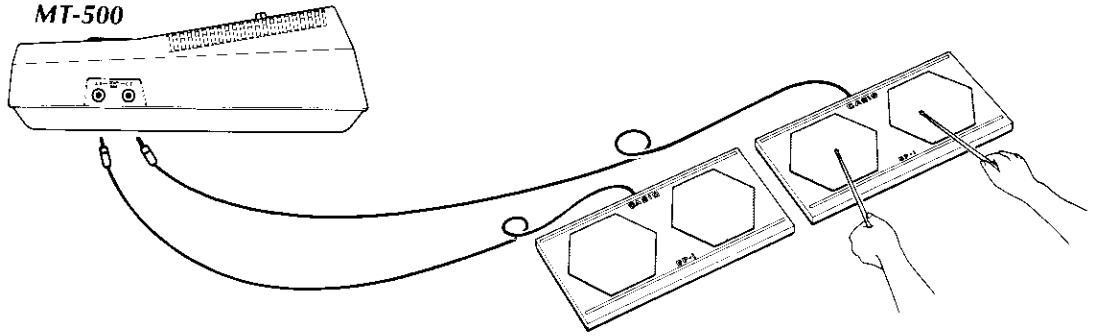
Striking any of the drum pads will produce the sound corresponding to the setting of the instrument selector. Volume of the drum pad output can be adjusted using the rhythm volume control and the main volume control.

(Drum solos while using auto-rhythm)

- Striking a drum pad while an auto-rhythm is being used automatically stops the auto-rhythm and sounds the drum solo only. However, the drum solo tempo indicator lights with each beat of the auto-rhythm. Auto-rhythm output resumes as soon as any key on the accompaniment keyboard is pressed.
- When the bass drum pattern switch is in the "on" position, only the bass drum is sounded for the currently selected auto-rhythm pattern/super drums pattern.

CAUTION

Strongly striking a drum pad with a drum stick or other hard object may damage the pads. Drum sticks should only be used with external drum pad (DP-1, option).



7. Care of Your Unit

1. Avoid heat, humidity, and direct sunlight.
Do not overexpose the unit to direct sunlight, place it near a heater, or in any area subject to high temperature.

2. Avoid severe impacts and do not drop.
Severe impacts can result in malfunction. When carrying or transporting the unit, protect the keyboard and buttons by packing with soft cloth.

3. Keep the unit free of liquids, dust, particles, etc.
Do not allow foreign matter to enter between the keys. Be especially careful of metallic objects such as hairpins, sewing needles or coins. Also, do not allow the unit to get wet.

4. Never attempt to modify any part of the unit.
Your keyboard is a precision musical instrument made up of sophisticated electronic parts. Any modification of, or tampering with internal components can cause trouble or malfunction.

5. Do not use lacquer thinner or similar chemicals for cleaning.
Clean the keyboard with a soft cloth dampened with a mild detergent. Soak the cloth in the detergent solution and squeeze it until almost dry.

6. Remove batteries before extended storage.
Batteries left in the unit for long periods can leak and cause damage to electronic circuitry.

7. In case of malfunction...
Check whether buttons and connections are set correctly as indicated in the troubleshooting chart on page 19 of this manual. If the unit still does not work properly, contact the original retailer or a nearby dealer. Never attempt to repair the unit yourself. This can result in serious damage of the components.

8. Troubleshooting

*For any malfunction, always check battery condition first. (see page 7)

Trouble	Possible Cause	Remedy
No sound, even if keys are pressed.	1. Main volume turned down. 2. Headphones connected.	1. Turn up main volume 2. Disconnect headphones.
No rhythm.	Rhythm volume turned down.	Turn up rhythm volume.
No accompaniment.	Accompaniment volume turned down.	Turn up accompaniment volume.
Occasional interference.	Refrigerators, washing machines and similar electric appliances.	Use outlet as far away as possible from applicance thought to be the cause.
No sound when connected to external amplifier.	1. Main keyboard volume turned down. 2. Defective conection cord.	1. Turn up main volume. 2. Replace connection cord.

9. Specifications

Model:	Casiotone MT-500
Number of keys:	49 keys (4 octaves)
Preset tones:	20: piano, vibraphone, flute, human voice, bells, jazz organ 1, harpsichord, double reed, synth. sound 1, elec. guitar, elec. piano, violin, panpipe, pipe organ, glockenspiel, jazz organ 2, clavichord, synth. reed, synth. sound 2, synth. guitar
Auto-rhythms:	12: rock, disco, pops 1, swing, samba, march, slow rock, 16 beat, pops 2, reggae, bossa nova, waltz
Super drums:	Bass drum/bass, snare drum/rim shot/tom, cymbal/high hat, hand clap/agogo/ bongo, chord
Drum solo:	Bass drum pattern, bass drum/hand clap/cymbal, snare drum/rim shot/agogo, open high hat/synth. hi tom/hi bongo, closed high hat/synth. low tom/low bongo
Auto-accompaniment:	Casio Chord (off/fingered/on)
Pitch control:	$\pm 1/4$ tone
Speakers:	10 cm dia. × 2
Terminals:	Line out (R/L), AC adaptor jack, headphone, external drum pad × 2
Output impedance:	2KΩ
Output voltage:	1V (RMS) MAX.

Power source:	3-way power supply • AC 100, 117, 220 or 240V (±10V) using AD-5 optional adaptor • 6 D-size dry batteries (Battery life=approx. 16 hours) • Car battery using CA-5 car battery adaptor
Power consumption:	7.8W
Auto power off function:	Approx. 6 minutes after last operation
Dimensions:	665(W) × 87(H) × 236(D)mm $26\frac{1}{5}''$(W) × $3\frac{2}{5}''$(H) × $9\frac{1}{3}''$(D)
Weight:	3.9kg (including batteries) 8.6lbs (including batteries)

**Design and specifications are subject to change without notice.*

GUIDELINES LAID DOWN BY FCC RULES FOR USE OF THE UNIT IN THE U.S.A. (not applicable to other areas).

This equipment generates and uses radio frequency energy and if not installed and used properly, that is, in strict accordance with the manufacturer's instructions, may cause interference to radio and television reception. It has been type tested and found to comply with the limits for a Class B computing device in accordance with the specifications in Subpart J of Part 15 FCC Rules, which are designed to provide reasonable protection against such interference in a residential installation. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

.....reorient the receiving antenna
.....relocate the equipment with respect to the receiver
.....move the equipment away from the receiver
.....plug the equipment into a different outlet so that equipment and receiver are on different branch circuits.

If necessary, the user should consult the dealer or an experienced radio/television technician for additional suggestions. The user may find the following booklet prepared by the Federal Communications Commission helpful: "How to Identify and Resolve Radio-TV Interference Problems". This booklet is available from the US Government Printing Office, Washington, D.C., 20402, Stock No. 004-000-00345-4.